

**To:** McClintock, Katie[McClintock.Katie@epa.gov]  
**From:** Narvaez, Madonna  
**Sent:** Thur 2/11/2016 9:38:59 PM  
**Subject:** FW: SE Portland Metals Emissions Briefing - Air Monitoring update

**From:** Hall, Chris  
**Sent:** Thursday, February 11, 2016 1:35 PM  
**To:** Elleman, Robert <Elleman.Robert@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>  
**Cc:** Islam, Mahbubul <Islam.Mahbubul@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>  
**Subject:** RE: SE Portland Metals Emissions Briefing - Air Monitoring update

All, I spoke with Anthony Barnack at DEQ this morning to get a better understanding of the air monitoring work they have and are currently performing. Anthony is presently on the ground setting up new air monitoring equipment for the follow-up study in SE Portland near the Bullseye Glass Company. He filled me in on the relevant details of the Oct 2015 screening study and their current plans for a more intense follow-up study. Following are the details I was able to gather during our phone conversation.

Oct 2015 Screening Study:

- One site with two PM10 low volume monitor located 220 meters NE of Bullseye GC.
- One month study from Oct 6 through Nov 2; 18 sample days.
- BGI PQ200 monitor – same as used for school air toxics study at Harriet Tubman MS.
- ICP-MS analysis of Teflon filters conducted by Desert Research Institute, Reno NV.
- 9 metals analyzed – Cr, Co, As, Se, Cd, Pb, Ni, Mg, and Be.
- o Average As, Cd, and Ni concentrations above ambient benchmark levels
- No QAPP or study report developed.

- Lab results can be found at <http://www.deq.state.or.us/nwr/docs/PowellSE22nddata.pdf>

Current Study:

- 4 sites; following NATTS monitoring protocols
  - o Winterhaven K-8 ES; 460 meters WSW of BGC (not running – power issues)
  - o Fred Meyer parking lot, 220 meters NNW of BGC (not running – power issues)
  - o CCLC daycare; 215 meters SSE of BGC (currently running)
  - o A site NW of BGC (not running – site location tbd)
  - o A site near Uroboros Glass Studio (not running - site location tbd); approx 5.0 km NNW
- 3 monitors at CCLC
  - o 2x PM10 high volume; 1x running 12hr and 1x running 24hr
  - o 1x BGI PQ200 for sampler comparison analysis
- 1 PM10 high volume at other 3 sites
  - o 12 hr averaging period
- Hi-vols - quartz filters with ICP-MS analysis by DEQ lab
- BGI lo-vol – Teflon with ICP-MS analysis by DRI
- Everyday sampling initially for 2 weeks – further sampling may occur and will be based on the results from this initial 2 weeks.

Anthony also mentioned that the moss study shows a potential for high Ni and Cd near Precision Castparts in NW Portland and that this could be a future concern for us all.

Thanks, Chris

**From:** Elleman, Robert  
**Sent:** Thursday, February 11, 2016 9:49 AM  
**To:** Hall, Chris <[Hall.Christopher@epa.gov](mailto:Hall.Christopher@epa.gov)>  
**Subject:** FW: SE Portland Metals Emissions Briefing

**From:** Hastings, Janis  
**Sent:** Thursday, February 11, 2016 9:01 AM  
**To:** Elleman, Robert <[Elleman.Robert@epa.gov](mailto:Elleman.Robert@epa.gov)>  
**Cc:** Koprowski, Paul <[Koprowski.Paul@epa.gov](mailto:Koprowski.Paul@epa.gov)>; Bray, Dave <[Bray.Dave@epa.gov](mailto:Bray.Dave@epa.gov)>; Narvaez, Madonna <[Narvaez.Madonna@epa.gov](mailto:Narvaez.Madonna@epa.gov)>  
**Subject:** Re: SE Portland Metals Emissions Briefing

Thanks, Rob. This is interesting and I appreciate the background.

We had a briefing with Janet McCabe this week, and also she wanted to let us know that HQ is available to assist.

We should be aware of and on top of ODEQ's current air monitoring in the area. Let me know if there are needs or concerns. Paul and Madonna can coordinate with you.

Jan

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**From:** Elleman, Robert  
**Sent:** Thursday, February 11, 2016 8:48 AM  
**To:** Hastings, Janis; Bray, Dave; Narvaez, Madonna  
**Subject:** RE: SE Portland Metals Emissions Briefing

Is this no longer relevant?

Regardless, I'm back in the office and can tell you what I know. The USFS presented their moss results to NW-AIRQUEST last summer: [http://www.lar.wsu.edu/nw-airquest/docs/20150624\\_meeting/20150625\\_Donovan\\_moss.pdf](http://www.lar.wsu.edu/nw-airquest/docs/20150624_meeting/20150625_Donovan_moss.pdf). ODEQ had initiated this effort and had reached out to the USFS to use moss as a surveillance method (surveillance in the scientific definition, not a conspiracy theory definition). They found high levels of Cd and As in a bull's eye around Bullseye and also to some extent Uruboros. A moss study gives you an estimate of deposition, not concentration, and so there was no information from that study to cause concern. ODEQ told everyone they planned to follow up with monitoring. That wasn't particularly shocking or notable, since the AQ community is always looking into various issues and they rarely blow up like this one did.

The moss study gives an integrated deposition, and the time period over which that deposition occurred is a big unknown with that kind of measurement. So there's no time period to speak of.

I am not aware of a written report from USFS about the moss study, though I suspect one exists.

I heard from ODEQ last week that the monitoring started in the fall and they only had a month or so of ambient air data processed before they started to get concerned. I know the technical folks at DEQ wanted to spend more time checking the data and doing analysis before it entered the public sphere. But that didn't happen.

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**From:** Hastings, Janis  
**Sent:** Wednesday, February 10, 2016 7:43 AM  
**To:** Bray, Dave <[Bray.Dave@epa.gov](mailto:Bray.Dave@epa.gov)>; Narvaez, Madonna <[Narvaez.Madonna@epa.gov](mailto:Narvaez.Madonna@epa.gov)>  
**Cc:** Elleman, Robert <[Elleman.Robert@epa.gov](mailto:Elleman.Robert@epa.gov)>  
**Subject:** RE: SE Portland Metals Emissions Briefing

I'm copying Rob on this in case he might also have information.

Jan

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**From:** Bray, Dave  
**Sent:** Tuesday, February 09, 2016 6:39 PM  
**To:** Narvaez, Madonna <[Narvaez.Madonna@epa.gov](mailto:Narvaez.Madonna@epa.gov)>; Hastings, Janis <[Hastings.Janis@epa.gov](mailto:Hastings.Janis@epa.gov)>  
**Subject:** RE: SE Portland Metals Emissions Briefing

I'll look back through the emails tomorrow to see if I can figure out what monitoring it was talking about.

Dave

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**From:** Narvaez, Madonna  
**Sent:** Tuesday, February 09, 2016 6:35 PM  
**To:** Bray, Dave <[Bray.Dave@epa.gov](mailto:Bray.Dave@epa.gov)>; Hastings, Janis <[Hastings.Janis@epa.gov](mailto:Hastings.Janis@epa.gov)>  
**Subject:** RE: SE Portland Metals Emissions Briefing

## Ex. 5 - Deliberative Process

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**From:** Bray, Dave  
**Sent:** Tuesday, February 09, 2016 6:34 PM  
**To:** Narvaez, Madonna <[Narvaez.Madonna@epa.gov](mailto:Narvaez.Madonna@epa.gov)>; Hastings, Janis

<Hastings.Janis@epa.gov>

**Subject:** RE: SE Portland Metals Emissions Briefing

I thought the one month of data was referring to the ODEQ air monitoring, not the USFS moss study.

## Ex. 5 - Deliberative Process

# Ex. 5 - Deliberative Process

Dave

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**From:** Narvaez, Madonna

**Sent:** Tuesday, February 09, 2016 6:27 PM

**To:** Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>

**Subject:** RE: SE Portland Metals Emissions Briefing

**Importance:** High

I had asked Judy if EPA did have a copy of the report. I remember Sarah telling me since the actual study belonged to USFS, she was not able to share it with us. Paul gave her the USFS contact to try to see if they would let us look at it. It is based on one month's worth of data, and still is draft, I think.

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**From:** Bray, Dave

**Sent:** Tuesday, February 09, 2016 6:25 PM

**To:** Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>

**Subject:** RE: SE Portland Metals Emissions Briefing

# Ex. 5 - Deliberative Process

I wonder if our enforcement folks got it somehow or ASTDR?

Dave

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**From:** Narvaez, Madonna  
**Sent:** Tuesday, February 09, 2016 5:53 PM  
**To:** Hastings, Janis <[Hastings.Janis@epa.gov](mailto:Hastings.Janis@epa.gov)>; Bray, Dave <[Bray.Dave@epa.gov](mailto:Bray.Dave@epa.gov)>  
**Subject:** RE: SE Portland Metals Emissions Briefing  
**Importance:** High

EPA is not reviewing the USFS report. Although DEQ has seen the study, they are not free to share it. Paul Koprowski has a call in to the USFS contact to see if we can get a copy of the study.

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**From:** Hastings, Janis  
**Sent:** Tuesday, February 09, 2016 5:35 PM  
**To:** McCabe, Janet <[McCabe.Janet@epa.gov](mailto:McCabe.Janet@epa.gov)>; Niebling, William <[Niebling.William@epa.gov](mailto:Niebling.William@epa.gov)>; Page, Steve <[Page.Steve@epa.gov](mailto:Page.Steve@epa.gov)>; Koerber, Mike <[Koerber.Mike@epa.gov](mailto:Koerber.Mike@epa.gov)>; Wayland, Richard <[Wayland.Richard@epa.gov](mailto:Wayland.Richard@epa.gov)>; Millett, John <[Millett.John@epa.gov](mailto:Millett.John@epa.gov)>; Wood, Anna <[Wood.Anna@epa.gov](mailto:Wood.Anna@epa.gov)>  
**Cc:** McLerran, Dennis <[mclerran.dennis@epa.gov](mailto:mclerran.dennis@epa.gov)>; Pirzadeh, Michelle <[Pirzadeh.Michelle@epa.gov](mailto:Pirzadeh.Michelle@epa.gov)>; Narvaez, Madonna <[Narvaez.Madonna@epa.gov](mailto:Narvaez.Madonna@epa.gov)>; Bray, Dave <[Bray.Dave@epa.gov](mailto:Bray.Dave@epa.gov)>; Holsman, Marianne <[Holsman.Marianne@epa.gov](mailto:Holsman.Marianne@epa.gov)>; Kowalski, Ed <[Kowalski.Edward@epa.gov](mailto:Kowalski.Edward@epa.gov)>  
**Subject:** RE: SE Portland Metals Emissions Briefing

Below is a draft agenda for our call tomorrow and the Desk Statement.

**Briefing for Janet McCabe on SE Portland Air Toxics**

# **Ex. 5 - Deliberative Process**

**Desk Statement:** SE Portland Metals Contamination (draft, 2/9/2016)

# **Ex. 5 - Deliberative Process**



## **Ex. 5 - Deliberative Process**

-----Original Appointment-----

**From:** McCabe, Janet

**Sent:** Tuesday, February 09, 2016 6:28 AM

**To:** McCabe, Janet; Niebling, William; Kowalski, Ed; Page, Steve; Koerber, Mike; Wayland, Richard; Millett, John; Wood, Anna; Bray, Dave; Narvaez, Madonna; Holsman, Marianne; Hastings, Janis

**Cc:** McLerran, Dennis; Pirzadeh, Michelle

**Subject:** SE Portland Metals Emissions Briefing

**When:** Wednesday, February 10, 2016 1:30 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).

**Where:** WJC-N 5400 +  **Ex. 6 - Personal Privacy** Participant Code  **Ex. 6 - Personal Privacy**